

III. CLAIM AMENDMENTS

1. (Currently Amended) A microphone structure comprising a microphone capsule which has at least first and second output contacts, and within said microphone capsule

means for converting changes in air pressure to an electrical signal,

a preamplifier having first and second output conductors and

a first capacitor connected between said output conductors of the preamplifier, the microphone structure further comprising at least one electro-static discharge protector connected between said output contacts of the microphone capsule and being located within the microphone capsule and, also within the microphone capsule, a first impedance in series between said first output conductor and said first output contact for eliminating external protection circuits, for minimizing the areas of conductive loops susceptible to RF disturbances, and for combining ESD protection and RF filtering.

2. (Currently Amended) A microphone structure comprising a microphone capsule, which has at least first and second output contacts, and within said microphone capsule

means for converting changes in air pressure to an electrical signal,

a preamplifier having first and second output conductors and

a first capacitor connected between said output conductors of the preamplifier, the microphone structure further comprising the following for eliminating external protection circuits, for minimizing the areas of conductive loops susceptible to RF disturbances, and for combining ESD protection and RF filtering, at least one electro-static discharge protector being located on an outer surface of the microphone capsule, and, within the microphone capsule, a first impedance in series between said first output conductor and said first output contact.

3. (Canceled)

4. (Original) A microphone structure according to claim 1, characterized in that it further comprises at least second impedance (Z) in series with said first impedance and at least second capacitor (C33).

5. (Original) A microphone structure according to claim 4, characterized in that at least one of said series impedances is resistive.

6. (Original) A microphone structure according to claim 4, characterized in that at least one of said series impedances is inductive.

7. (Original) A microphone structure according to claim 4, characterized in that said capacitors and structure parts having series impedance form a ladder network.

8. (Previously Presented) A microphone structure according to claim 1, characterized in that the preamplifier, electro-static discharge protector, said series structure parts and said capacitors are on a circuit board (41).

9. (Previously Presented) A microphone structure according to claim 4, characterized in that at least one of the pre-amplifier, the first capacitor, the electro-static discharge protector, the first impedance, the second impedance, and the second capacitor are inside an integrated circuit (IC).

10. (Original) A microphone structure according to claim 1, characterized in that the electro-static discharge protector is a varistor (VDR2).

11. (Original) A microphone structure according to claim 1, characterized in that the electro-static discharge protector is a semiconductor (ZD).

12. (Original) A microphone structure according to claim 1, characterized in that the electro-static discharge protector is a polymer component.

13. (Previously Presented) A microphone structure according to claim 2, characterized in that the electro-static discharge protector is a feed-through component (FTC).

14. (Previously Presented) A microphone structure comprising a microphone capsule (200; 300), which has at least first and second output contact, and within said microphone capsule

means for converting changes in air pressure to an electrical signal,

preamplifier (Q2; Q3) having first and second output conductor and

a first capacitor (C21; C31) connected between said output conductors of the preamplifier,

a first impedance (R21; R31) in series between said first output conductor and said first output contact,

the microphone structure having at least two electro-static discharge protectors, characterized in that electro-static discharge protectors form one of following connections: parallel, series, star.

15. (New) A mobile phone comprising a microphone structure having a microphone capsule which has at least first and second output contacts, and within said microphone capsule

means for converting changes in air pressure to an electrical signal,

a preamplifier having first and second output conductors and

a first capacitor connected between said output conductors of the preamplifier, the microphone structure further comprising at least one electro-static discharge protector connected between said output contacts of the microphone capsule and being located within the microphone capsule and, also within the microphone capsule, a first impedance in series between said first output conductor and said first output contact for eliminating external protection circuits, for minimizing the areas of conductive loops susceptible to RF disturbances, and for combining ESD protection and RF filtering.

16. (New) A headset comprising a microphone structure having a microphone capsule which has at least first and second output contacts, and within said microphone capsule

means for converting changes in air pressure to an electrical signal,

a preamplifier having first and second output conductors and

a first capacitor connected between said output conductors of the preamplifier, the microphone structure further comprising at least one electro-static discharge protector connected between said output contacts of the microphone capsule and being located within the microphone capsule and, also within the microphone capsule, a first impedance in series between said first output conductor and said first output contact for eliminating external protection circuits, for minimizing the areas of conductive loops susceptible to RF disturbances, and for combining ESD protection and RF filtering.